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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/062,442	02/05/2002	Yoshinori Nishiki	Q68421	2590	
23373 7:	590 05/19/2004		EXAMINER		
SUGHRUE M		. MAPLES, JOHN S			
2100 PENNSY SUITE 800	LVANIA AVENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHINGTO	N, DC 20037		1745		
			DATE MAILED: 05/19/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application	on No.	Applicant(s)			
Office Action Summary		10/062,44	12	NISHIKI ET AL.			
		Examiner	,	Art Unit			
		John S. N	•	1745			
Period fo	The MAILING DATE of this communica or Reply	tion appears on the	cover sheet with t	he correspondence add	lress		
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) of the provided property of the provided provided provided property of the provided property of the provided property of the provided pro	ATION.  37 CFR 1.136(a). In no ever cation.  ays, a reply within the state ory period will apply and will by statute. Cause the app	ent, however, may a reply utory minimum of thirty (30 ill expire SIX (6) MONTHS lication to become ABAND	be timely filed  O) days will be considered timely.  Forom the mailing date of this cor  DONED (35 U.S.C. § 133).	nmunication.		
Status							
1)	Responsive to communication(s) filed	on .					
2a)	•	This action is n	on-final.		÷		
3)							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	,					
5)□ 6)⊠ 7)□	Claim(s) 1-8 ie/are pending in the applied 4a) Of the above claim(s) 7 and 8 is/are Claim(s) is/are allowed. Claim(s) 1-6 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	e withdrawn from o					
Applicat	ion Papers						
10)	The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to b	) accepted or b) on to the drawing(s) be e correction is require	oe held in abeyance. ed if the drawing(s) i	See 37 CFR 1.85(a). is objected to. See 37 CFI			
Priority (	under 35 U.S.C. § 119						
12)⊠ a)	Acknowledgment is made of a claim for  All b) Some * c) None of:  1. Certified copies of the priority do  2. Certified copies of the priority do  3. Copies of the certified copies of application from the Internationa  See the attached detailed Office action f	cuments have been cuments have been the priority documents laureau (PCT Rul	en received. en received in Appl ents have been rec e 17.2(a)).	lication No ceived in this National S	Stage		
Attachmen							
	e of References Cited (PTO-892)		4) Interview Sum	mary (PTO-413)			
2) Notice 3) Infor	ce of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or PT er No(s)/Mail Date		Paper No(s)/M	lail Date mal Patent Application (PTO- TONS FOR ALLOWANCE	-152)		

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## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-6, drawn to an electrode/membrane assembly/ fuel cell, classified in class 429, subclass 33.
  - II. Claim 7, drawn to an electrolytic cell, classified in class 204, subclass 194+.
  - III. Claim 8, drawn to a process of making an electrode/membrane assembly, classified in class 29, subclass 623.1.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions III and I/II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the products of Groups I and II could be made without the use of the external force to form the assembly. Group I is distinct from Group II because the former is directed to a fuel cell, which product functions entirely differently than an electrolytic cell.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their different classification and recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with John Callahan on April 1, 2004 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-6.

  Affirmation of this election must be made by applicant in replying to this Office action. Claims

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7-8 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 6, applicant has recited "said electrode". It is unclear which of the two electrodes applicant previously recited in this claim they are referring to. Claims 2-4, dependent on claim 1, fall therewith.

Claim 5, line 5, applicant has recited "said electrode". As previously stated for claim 1, it is unclear which of the two electrodes applicant previously recited in this claim they are referring to. Claim 6, dependent on claim 5, falls therewith.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wu et al. describe a gel electrolyte for a battery that penetrates into the pores of the adjacent electrodes; MacFadden teach a solid polymer electrolyte for a battery where the

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electrolyte diffuses into electrode pores and Mertesdorf et al. disclose a metallized cationexchange membrane of interest.

9. The following is an examiner's statement of reasons for allowance: none of the prior art of record teach the claimed electrode-membrane assembly/fuel cell including the same where the assembly comprises a pair of electrodes where at least one is porous and a thermoplastic resin membrane. The membrane has a functional group that upon hydrolysis is modified to a free ion exchange group wherein the resin membrane partly penetrates into the pores of the electrodes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 571-272-1287. The examiner can normally be reached on Monday-Thursday from 6:15-3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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John S. Maples
Primary Examiner
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JSM/5-17-2004